

4. PROJECT SUMMARY

SNC Reference Number (enter if previously assigned)
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County: Tehama

Applicant: Lassen National Forest

Project Title: Mill Creek Watershed Restoration - Road Improvements in Upper Mill Creek Watershed to Reduce Sediment Production for Protection of Anadromous Fish Habitat

PROJECT GOAL

The purpose of this proposal is to reduce delivery of sediment to anadromous fish habitat in Mill Creek. Roads, and especially roads on rhyolitic soils have been identified as the primary source of accelerated erosion in the watershed, and the proposal would significantly reduce both chronic and episodic delivery of sediment to Mill Creek from roads.

PROJECT SCOPE

SNC funds would be used to reduce sediment delivery to Mill Creek by treating 156 sites of accelerated erosion located on 16.5 miles of road in the watershed. The desired outcome of the project treatments is to reduce sediment delivery to Mill Creek (and tributaries) by approximately 240 cubic yards of sediment annually, and another 1900 cubic yards that could be lost during large runoff events. The goal of the treatments is to improve habitat for anadromous fish in 2.2 miles of Mill Creek. The project also assists in meeting watershed goals contained in both the Mill Creek Conservancy and Lassen National Forest (LNF) watershed management strategies by improving watershed condition, reducing sediment production from sources of accelerated erosion, and restoring natural runoff patterns. In sum, these efforts improve the resiliency of the upper watershed, and increase its potential to support anadromous fish and other resources in the event of wildfire, drought, climate change and other unforeseen stresses to the watershed.

Site treatments will include: upgrading 23 culverts; applying aggregate surfacing to 1.7 miles on 4 roads; armoring 7 existing ditches, channels, gullies and knick-points; installing 56 armored Diversion Potential Dips; adding 7 metal end sections to existing culverts; putting in 6 waterbars and 9 low water crossings, maintaining 14 existing crossing structures, out-sloping 3.2 miles on 4 roads; installing riprap at 8 locations; and installing 3 rolling dips; and applying erosion matt, filling gullies and lowering fills in 8 locations.

Primary partners in the project are the LNF and CPC. These entities are responsible for final design and implementation of the project treatments. Inventories and site specific preliminary designs were completed prior to application. Both LNF and CPC will provide matching funds to the project, estimated at 30% (\$196,600) of the total project cost. Additionally, both LNF and CPC will provide short and long term maintenance of improvements implemented by the project.

The Tehama County Resource Conservation District (TCRCD) is also a partner in the project. The Tehama County RDC will provide community outreach for this project.

LETTERS OF SUPPORT

Collins Pine Company, Mill Creek Conservancy, the Nature Conservancy, Tehama County RDC, and NOAA Fisheries Service

SNC PROJECT DELIVERABLES AND SCHEDULE

DETAILED PROJECT DELIVERABLES	TIMELINE
<i>INCLUDE SPECIFIC TASKS IDENTIFIED IN SCOPE AND ALL REPORTS, ETC.</i>	<i>ASSUME START DATE 60 DAYS AFTER SNC BOARD AUTHORIZATION(March 2009)</i>
SNC Grant Agreement signed	June 2009
Partner Agreements executed	August 2009
Pre-Project Site Monitoring Data Collection	October 2009
Sixth Month Progress Report Due (June - December 2009)	January 2009
Contract Preparation Complete	June 2010
Sixth Month Progress Report Due (January-June 2010)	July 2010
Contract Solicitation and Award	July 2010
Sixth Month Progress Report Due (July-December 2010)	January 2011
Sixth Month Progress Report Due (January-June 2011)	July 2011
Road Improvement work completed	October 2011
Outreach completed	October 2011
Sixth Month Progress Report Due (July-December 2011)	January 2012
Sixth Month Progress Report Due (January-June 2012)	July 2012
Post-Project Monitoring Completed	November 2012
Draft Project Performance Measures Report	December 2012
Sixth Month Progress Report Due (July-December 2012)	January 2013
Final Project Report	January 2013

SNC PROJECT COSTS

PROJECT BUDGET CATEGORIES	TOTAL SNC FUNDING
Interdisciplinary Staff Coordination	\$36,700
Project Engineering	\$31,300
Road Improvements - Sediment Reductions Activities	\$331,700
Community Outreach	\$24,200
Project Administration and Reporting	\$30,600
Project Monitoring	\$20,800
SNC GRANT TOTAL	\$475,300